

## CONTENTS

1 January 1989, Number 1

### Editorials

The Rocky Road to Effective Treatment of Human Immunodeficiency Virus (HIV) Infection  
*M.S. Hirsch*

Long-term mortality in patients with the acquired immunodeficiency syndrome (AIDS) or advanced AIDS-related complex is reduced sixfold by zidovudine over 36 weeks.

Long-Term Care: The Need for, and Limits of, an Effective Federal Role  
*A.R. Somers*

The major challenge today is not the supposedly intractable costs but the administrative and political problem of combining the centralization essential to universal coverage at a reasonable price with the decentralization essential to reasonable autonomy for the patient and appropriate high-quality care.

Management of Antibiotic-Resistant *Neisseria gonorrhoeae*  
*F.N. Judson*

Gonococcal resistance is widespread and few communities will be spared all types. The two most important components of a control program are the National Gonococcal Isolate Surveillance project and treatment with ceftriaxone, 250 mg or 125 mg administered intramuscularly, which is active against all known types of resistance and will cure forms of uncomplicated gonorrhea, including the more difficult to treat infections of the pharynx and anorectum.

### Articles

Coagulase-Negative Staphylococcal Bacteremia: Mortality and Hospital Stay  
*M.A. Martin, M.A. Pfaller, and R.P. Wenzel*

Coagulase-negative staphylococci, the leading organisms causing hospital-acquired bacteremias, are associated with mortality in excess of that due to the underlying disease alone.

Dopamine Effects on Diaphragmatic Strength during Acute Respiratory Failure in Chronic Obstructive Pulmonary Disease  
*M. Aubier, D. Murciano, Y. Menu, J. Boczkowski, H. Mal, and R. Pariente*

Dopamine has a potent effect on diaphragmatic strength generation and diaphragmatic blood flow in patients with chronic obstructive pulmonary disease during acute respiratory failure. It is possible to improve diaphragmatic contraction in these patients by administering pharmacologic agents that augment diaphragmatic blood flow.

Thiazide-Induced Hyponatremia: Reproducibility by Single-Dose Rechallenge and an Analysis of Pathogenesis

*E. Friedman, M. Shadel, H. Halkin, and Z. Farfel*

Single-dose administration of a thiazide diuretic may predict the development of hyponatremia. Increased body weight apparently due to polydipsia may play a major role in the pathogenesis of thiazide-induced hyponatremia.

Hypersensitivity Pneumonitis Induced by Toluene Diisocyanate: Sequelae of Continuous Exposure  
*Y. Yoshizawa, M. Ohtsuka, K. Noguchi, Y. Uchida, M. Suko, and S. Hasegawa*

Blastogenic responses of bronchoalveolar lymphocytes to toluene diisocyanate markedly decreased, and the patient showed clinical improvement despite continued exposure to the agent.

### NIH Conference

Somatostatin and Somatostatin Analogue (SMS 201-995) in Treatment of Hormone-Secreting Tumors of the Pituitary and Gastrointestinal Tract and Non-Neoplastic Diseases of the Gut  
*P. Gorden, R.J. Comi, P.N. Maton, and V.L.W. Go*

Somatostatin, a peptide synthesized in many tissues, can act as a neurotransmitter, a systemic hormone, or a local hormone, and it inhibits the secretion of hormones or other cell products. In general, the long-acting analogue of somatostatin (SMS 201-995) has proved safe with few significant side effects, but whether the long-term use of the drug will result in an iatrogenic form of the somatostatinoma syndrome is uncertain.

### Review

Autologous Bone Marrow Transplantation: Current Status and Future Directions  
*B.D. Cheson, L. Lacerna, B. Leyland-Jones, G. Sarosy, and R.E. Wittes*

Results with autologous bone marrow transplantation can be improved through systematically developed, carefully designed clinical trials that may be facilitated by collaborative research. Studies should focus on disease-directed drug combinations, several courses of high-dose therapy, treatment at a time of lower tumor burden, and reducing toxicity with hematopoietic growth factors.

*Contents continued on next page*

<b>Esophageal Chest Pain: Current Controversies in Pathogenesis, Diagnosis, and Therapy</b>	88
<b>J.E. Richter, L.A. Bradley, and D.O. Castell</b>	
<p>The controversial issues considered include the potential mechanisms of esophageal pain, the differentiation of cardiac and esophageal causes, the evaluation of new esophageal motility disorders, the use of esophageal tests in evaluating noncardiac chest pain, the usefulness of techniques for prolonged monitoring of intraesophageal pressure and pH, the relation of psychologic abnormalities to esophageal motility disorders, the possible mechanisms for decreased thresholds for visceral pain in these patients, the relation of esophageal chest pain to the irritable bowel syndrome, and the appropriate therapies for these patients.</p>	
<hr/>	
<b>Academia and Clinic</b>	
<b>Effect of a Geriatric Consultation Team on Functional Status of Elderly Hospitalized Patients: A Randomized Controlled Clinical Trial</b>	79
<b>L.J. McVey, P.M. Becker, C.C. Saltz, J.R. Feussner, and H.J. Cohen</b>	
<p>Among elderly patients entering an acute care hospital, approximately 60% had some degree of, and one third had serious functional disability. Such patients are at risk for further decline during hospitalization. A geriatric consultation team was unable to alter the degree of functional decline. Either geriatric units or consultation teams may have to offer direct preventative or restorative services in addition to advice if improvements are to be made.</p>	
<hr/>	
<b>Brief Reports</b>	
<b>Zidovudine-Induced Hepatotoxicity</b>	85
<b>G. Dubin and M.N. Braffman</b>	
<p>A patient developed severe cholestatic hepatitis that recurred with rechallenge and resolved after the drug was discontinued.</p>	
<b>Reversal of Adrenal Glucocorticoid Dysfunction in a Patient with Disseminated Histoplasmosis</b>	86
<b>R.G. Washburn and J.E. Bennett</b>	
<p>A 63-year-old woman presented with mucocutaneous ulcers involving the oral mucosa, vulva, and perianal area plus positive blood cultures. Her serum cortisol concentration was only 36 nmol/L after stimulation with intravenous cosyntropin. Adrenal-glucocorticoid function was found to be normal 1 year after completion of a 13-month course of ketoconazole therapy.</p>	
<hr/>	
<b>Letters and Corrections</b>	
<b>Research on Brain-Dead Patients</b>	88
<b>R. Baker</b>	
<hr/>	
<b>Methotrexate and Rheumatoid Arthritis</b>	88
<b>W.S. Wilke, J.M. Kremer, A.M. Mackenzie, A.M. Segal, D.J. Mazanec, A.P. Koo, L.H. Calabrese, R.J. Scheetz, C.S. White, and J.D. Clough; D.E. Furst and M. Weinblatt</b>	
<hr/>	
<b>Cocaine and Rhabdomyolysis</b>	90
<b>R.L. Howard and W.D. Kaehny; B. Herzlich, E. Arsura, M. Pagala, and D. Grob</b>	
<hr/>	
<b>Nodular Pneumonitis after Cancer Chemotherapy</b>	91
<b>J.A. Talcott, M.B. Garnick, P.C. Stomper, J.J. Godleski, and J.P. Richie</b>	
<hr/>	
<b>Cardiac Effects of Inhaled Typewriter Correction Fluid</b>	91
<b>R.M. Wodka and E.W.S. Jeong</b>	
<hr/>	
<b>The Inoue-Melnick Virus, Human Herpesvirus Type 6, and the Chronic Fatigue Syndrome</b>	92
<b>J.K. Dale, S.E. Straus, D.V. Abashia, Z.S. Salahuddin, R.C. Gallo, Y. Nishibe, and Y.K. Inoue</b>	
<hr/>	
<b>Thrombotic Thrombocytopenic Purpura and Human T-Lymphotropic Virus, Type 1 (HTLV-1)</b>	93
<b>A.C. Dixon, D.W. Kwock, J.M. Nakamura, E.T. Yanagihara, S.M. Saiki, A.J. Bodner, and S.S. Alexander</b>	
<hr/>	
<b>False-Positive Tests for Human Immunodeficiency Virus (HIV) in Patients with Cystic Fibrosis</b>	94
<b>N.J. Dillman, W.S. Ceglopski, and S.B. Fiel</b>	
<hr/>	
<b>The Literature of Medicine</b>	
<b>Reviews, Notes, and Listings</b>	95
<b>Medical Notices</b>	Begins on I-17
<b>From Other Journals</b>	Begins on I-55
<b>Abstracts of Articles</b>	Begins on I-61
<b>Subscription Information</b>	I-9
<b>Information for Readers and Authors</b>	I-9
<b>Copyright Form</b>	I-13
<b>Classified Services</b>	See Advertising Pages
<b>Index to Advertisers</b>	I-94

<b>Editorials</b>			
Serologic Methods for Diagnosing Tuberculosis <i>R.C. Good</i>	97	Cardiovascular and Renal Toxicity of a Nonionic Radiographic Contrast Agent after Cardiac Catheterization: A Prospective Trial <i>C.J. Davidson, M. Hlatky, K. Morris, K. Pieper, T.N. Skelton, S.J. Schwab, and T.M. Bashore</i>	119
The eradication of tuberculosis in the United States depends on early identification of infectious persons. Enzyme-linked immunosorbent assays or radioimmunoassays used with purified antigens for antibody detection or monoclonal antibodies for antigen detection may be sufficiently sensitive or specific. Commercial tests should be available in the next few years.		Baseline renal insufficiency was the only confirmed predictor of induced nephrotoxicity.	
<b>Articles</b>		<b>Diagnosis and Treatment</b>	
The Underused Medical Literature <i>E.J. Huth</i>	99	Tests of Glycemia in Diabetes Mellitus: Their Use in Establishing a Diagnosis and in Treatment <i>D.E. Singer, C.M. Coley, J.H. Samet, and D.M. Nathan</i>	125
As the literature of medicine has grown, the capacity of physicians to use it has shrunk. Although new information systems are needed, physicians can still adapt to literature overload and scattering by using several methods.		This review assesses the usefulness of urine glucose testing, physician-based and self blood glucose monitoring, and assays of glycated hemoglobin in diagnosing and treating diabetes mellitus.	
Left Ventricular Mass and Incidence of Coronary Heart Disease in an Elderly Cohort: The Framingham Heart Study <i>D. Levy, R.J. Garrison, D.D. Savage, W.B. Kannel, and W.P. Castelli</i>	101	Urinary Tract Infections in Men: Epidemiology, Pathophysiology, Diagnosis, and Treatment <i>B.A. Lipsky</i>	138
Subjects free of clinically apparent coronary heart disease were studied to examine the association of echocardiographically determined left ventricular mass with incidence of coronary heart disease. Echocardiographic assessment offers prognostic information beyond that provided by traditional risk factors.		Most men with urinary tract infection have a functional or anatomic abnormality of the genitourinary tract. Prostatic hypertrophy and genitourinary instrumentation are the major predispositions to infection in men.	
Recombinant Human Erythropoietin in Pre-Dialysis Patients: A Double-Blind Placebo-Controlled Trial <i>V.S. Lim, R.L. DeGowin, D. Zavala, P.T. Kirchner, R. Ables, P. Perry, and J. Fangman</i>	108	<b>Academia and Clinic</b>	
Patients who received erythropoietin had a dose-dependent rise in hematocrit. There was also a rise in erythrocyte mass, and maximal oxygen consumption increased during exercise.		Health Science Information Management and Continuing Education of Physicians: A Survey of U.S. Primary Care Practitioners and Their Opinion Leaders <i>J.W. Williamson, P.S. German, R. Weiss, E.A. Skinner, and F. Bowes III</i>	151
Hypersensitivity Pneumonitis Treated with an Electrostatic Dust Filter <i>R.L. Jacobs, C.P. Andrews, and F.O. Jacobs</i>	115	A survey of office-based physicians and physician opinion leaders identified problems in meeting current information needs. Increases in resources such as "validated reviews" or "expert networks" would help.	
Electrostatic dust filters, installed in a central air conditioning unit, may be effective treatment for patients with hypersensitivity pneumonitis when the causative antigen cannot be avoided.		<b>Brief Reports</b>	
Primary Bile Duct Lymphoma in the Acquired Immunodeficiency Syndrome (AIDS) <i>L.D. Kaplan, J. Kahn, M. Jacobson, K. Bottles, and J. Cello</i>	161	Symptoms and signs of cholangitis with a high-grade obstruction of the mid common bile duct were seen in a homosexual man seropositive for the human immunodeficiency virus.	

Contents continued on next page

Calcitriol in Prolonged Hypocalcemia due to the Tumor Lysis Syndrome <i>R.W. Dunlay, M.A. Camp, M. Allon, P. Fanti, H.H. Malluche, and F. Llach</i>	162	Slow-Release Verapamil and Hyperglycemic Metabolic Acidosis <i>A. Roth, H.I. Miller, B. Belhassen, and S. Laniado</i>	171
Hypocalcemia associated with depressed plasma levels of calcitriol occurred in a patient with Burkitt lymphoma who received chemotherapy treatment.			
<b>Letters and Corrections</b>			
Myocarditis and Endomyocardial Biopsy <i>M.E. Billingham; J.T. Lie</i>	165	Correction: Article on Intestinal Infections in the Acquired Immunodeficiency Syndrome (AIDS) <i>E.J. Huth</i>	172
Autopsies and Preventable Deaths <i>F.M. Gloth III and W.B. Greenough III; R.W. Dubois</i>	166	Correction: Omission of Address for Reprints and Current Author Affiliations in Article on the Doctor-Patient-Family Relationship <i>E.J. Huth</i>	172
Cocaine Complications and Pseudocholinesterase <i>P. Devenyi</i>	167	<b>Ad Libitum</b>	
Screening for Diabetes Mellitus <i>M.B. Davidson</i>	168	A Shared Oath on Entering Medicine: Trust and Alliance <i>G.B. Jastrzebski</i>	173
Septic Arthritis in Hemophilic Patients and Infection with Human Immunodeficiency Virus (HIV) <i>M.V. Ragni and E.N. Hanley</i>	168	The Heart <i>N.S. Skolnik</i>	173
Treating Disseminated <i>Mycobacterium avium-intracellulare</i> Infection <i>M.C. Bach</i>	169	How do things die? And Why? <i>L.L. Emanuel</i>	173
Fluconazole for Cryptococcal Meningitis <i>R. Esposito, C.U. Foppa, and S. Antinori</i>	170	<b>The Literature of Medicine</b>	
Ciprofloxacin and Delirium <i>J. Altés, J. Gascó, J. de Antonio, A. Salas, and C. Villalonga</i>	170	Reviews, Notes, and Listings	174
Facial Salmonella Abscess <i>J.P. Indrisano and G.L. Simon</i>	171	New Products and Services	Begins on I-23
		Abstracts of Articles	Begins on I-80
		Subscription Information	I-9
		Information for Readers and Authors	I-9
		Copyright Form	I-11
		Classified Services	See Advertising Pages
		CME Bulletin Board	I-59
		Index to Advertisers	I-110

**Editorials**

Screening for Endometrial Cancer: Is It Effective? 177  
*K.I. Pritchard*

Few data support the value of screening for endometrial cancer. A Canadian task force has recommended that endometrial screening not be included in periodic examinations for women, but that established screening techniques be promoted.

Serum Thyrotropin and the Assessment of Thyroid Status 179  
*D.A. Ehrmann and D.H. Sarne*

In most conditions, serum thyrotropin measured by an immunometric assay can be used to determine thyroid status. In conditions where use of this test alone can be misleading, measurement of thyrotropin is necessary but not sufficient.

**Articles**

Oral Dextran Sulfate (UA001) in the Treatment of the Acquired Immunodeficiency Syndrome (AIDS) and AIDS-Related Complex 183  
*D.I. Abrams, S. Kuno, R. Wong, K. Jeifords, M. Nash, J.B. Molaghan, R. Gorter, and R. Ueno*

In an 8-week study of the tolerance and safety of oral dextran sulfate, a potent in-vitro inhibitor of the human immunodeficiency virus, this agent was well tolerated. There was no evidence of systemic absorption of the parent compound.

Circulating p24 Antigen Levels and Responses to Dideoxycytidine in Human Immunodeficiency Virus (HIV) Infections: A Phase I and II Study 189  
*T.C. Merigan, G. Skowron, S.A. Bozzette, D. Richman, R. Uttamchandani, M. Fischl, R. Schooley, M. Hirsch, W. Soo, C. Pettinelli, H. Schaumburg, and the ddC Study Group of the AIDS Clinical Trials Group*

Dideoxycytidine was administered orally at 0.06, 0.03, 0.01, or 0.005 mg/kg body weight every 4 hours for 3 to 6 months to 61 patients who had 100 pg/mL or more serum p24 antigen titers. Significant suppression of serum p24 antigen was seen at the 0.01 mg/kg dose and less frequently at 0.005 mg/kg.

Tachyphylaxis with Amrinone Therapy: Association with Sequestration and Down-Regulation of Lymphocyte Beta-Adrenergic Receptors 195  
*A.S. Maisel, C.M. Wright, S.M. Carter, M. Ziegler, and H.J. Motulsky*

After amrinone therapy, hemodynamic responses were reduced at 24 to 36 hours, but they returned to baseline by 72 hours. Tolerance was accompanied by down-regulation, desensitization, and sequestration of  $\beta$ -adrenergic receptors on lymphocytes, and increased plasma catecholamines.

Increased Lung Water and Ascites after Massive Cocaine Overdosage in Mice and Improved Survival Related to Beta-Adrenergic Blockage 202  
*E.D. Robin, R.J. Wong, and K.A. Ptashne*

Increased lung water and transudative ascites associated with massive cocaine intoxication in mice were not prevented by alpha- or beta-adrenergic blockers. Propranolol administered either before or after cocaine sharply reduced mortality.

Low-Density Lipoprotein (LDL) Distribution Shown by  $^{99m}$ Technetium-LDL Imaging in Patients with Myeloproliferative Diseases 208  
*S. Vallabhajosula, H.S. Gilbert, S.J. Goldsmith, M. Paidi, M.M. Hanna, and H.N. Ginsberg*

Spleen and bone marrow are sites of LDL catabolism in patients with myeloproliferative disease. Macrophages may have a role in hypocholesterolemia and accelerated LDL catabolism.

**Diagnosis and Treatment**

The Periodic Physical Examination in Asymptomatic Adults 214  
*S.K. Oboler and F.M. LaForce*

An evaluation of the periodic physical examination according to contemporary epidemiologic standards.

**Review**

Bilateral Massive Adrenal Hemorrhage: Early Recognition and Treatment 227  
*R.H. Rao, A.H. Vagnucci, and J.A. Amico*

Death from bilateral massive adrenal hemorrhage can be prevented in certain high-risk patients by pre-emptive steroid therapy.

<b>Position Paper</b>			
Chronic Lymphocytic Leukemia: Recommendations for Diagnosis, Staging, and Response Criteria <i>International Workshop on Chronic Lymphocytic Leukemia</i>	236	Upper Gastrointestinal Endoscopy <i>R.E. Feldman; G. Kandel; K.L. Kahn, M.R. Chassin, D.H. Solomon, R.H. Brook, and J. Kosecoff; H.M. Spiro</i>	244
Use of the proposed recommendations for clinical trials will allow increased accuracy and reproducibility of future trials.			
<b>Brief Reports</b>		Nonsteroidal Anti-Inflammatory Drugs and Peptic Ulcer <i>A.T. Masi; M.R. Griffin, W.A. Ray, and W. Schaffner</i>	246
T-Cell Lymphoma, Tropical Spastic Paraparesis, and Malignant Fibrous Histiocytoma in a Patient with Human T-Cell Lymphotropic Virus, Type 1 <i>J.W. Lee, E.P. Fox, P. Rodgers-Johnson, C.J. Gibbs Jr., E. DeFreitas, A. Manns, W. Blattner, J. Cotelingam, P. Piccardo, C. Mora, J. Safar, P. Liberski, E. Sausville, J. Trepel, and B.S. Kramer</i>	239	Better Housestaff Schedules <i>B. Brown and R. Whang</i>	247
Findings in this patient are similar to those in a report of mesenchymal tumors in transgenic mice carrying the <i>tat</i> gene of human T-cell lymphotropic virus, type 1.			
Fatal Delayed Hemolytic Transfusion Reaction without Previous Blood Transfusion <i>T.F. Schorn and W.H. Knospe</i>	241	Nomenclature for Pulmonary Findings <i>J.-C. Yernault</i>	248
A woman with no history of blood transfusion died from a reaction to multiple erythrocyte antibodies induced by multiple pregnancies and maternal sensitization to fetal erythrocyte antigens.			
<b>Letters and Corrections</b>		Correction: Gastric Function in the Acquired Immunodeficiency Syndrome (AIDS) <i>M. Cohen; G. Lake-Bakaar and E.W. Straus</i>	248
The Diagnostic Coding of Myocardial Infarction <i>G.D. Schiff and A.S. Yaacoub</i>	243	Correction: Authors of Letters <i>R.N. Greenberg; C.J. Schleupner</i>	249
The Sand-Trap Hazard in Magnetic Resonance Imaging <i>T. Kim and N.J. Vogelzang</i>	243	Correction: Spelling of Author's Name <i>E.J. Huth</i>	249
<b>The Literature of Medicine</b>			
Reviews, Notes, and Listings			250
<b>Medical Notices</b>		Begins on I-12	
From Other Journals		Begins on I-86	
Abstracts of Articles		Begins on I-94	
Subscription Information		I-9	
Information for Readers and Authors		I-9	
Copyright Form		I-11	
Classified Services		See Advertising Pages	
Index to Advertisers		I-132	

**Editorials**

Ultrasound Examination in the Patient with Ascites 253  
*M. Black and A.C. Friedman*

Diagnostic sonography, combined with Doppler study of the inferior vena cava, portal, and hepatic veins, is justified in patients with rapid onset ascites. Its use should result in earlier diagnosis of the Budd-Chiari syndrome.

Disease Associated with *Clostridium difficile* 255  
 Infection  
*D.N. Gerding*

Gastrointestinal illnesses usually associated with *Clostridium difficile* include self-limited diarrhea, pseudomembranous colitis, and toxic megacolon. Diagnosis is usually made based on detection of *C. difficile* cytotoxin in stool, although this method is insensitive in some patients.

New Address: American College of Physicians and 258  
*Annals of Internal Medicine*  
*E.J. Huth*

The new address of the College and the journal as of 20 March 1989 will be: Independence Mall West, Sixth Street at Race, Philadelphia, PA 19106-1572.

**Articles**

Self-Report Questionnaire Scores in Rheumatoid 259  
 Arthritis Compared with Traditional Physical,  
 Radiographic, and Laboratory Measures  
*T. Pincus, L.F. Callahan, R.H. Brooks,  
 H.A. Fuchs, N.J. Olsen, and J.J. Kaye*

Scores were significantly correlated with joint count, radiographic score, erythrocyte sedimentation rate, grip strength, button test, walking time, American Rheumatism Association functional class, and global self-assessment.

Calcitriol Treatment Is Not Effective in 267  
 Postmenopausal Osteoporosis  
*S.M. Ott and C.H. Chesnut, III*

Eighty-six postmenopausal women with vertebral compression fractures were treated with calcitriol or placebo.

A Vasculopathy with Deposition of Lambda Light 275  
 Chain Crystals  
*G.C. Stone, B.A. Wall, I.R. Oppenheimer,  
 M.H. Wener, S.L. Jolly, A. Aguirre, R. Dwyer,  
 and P.A. Simkin*

Two patients developed subacute, obstructive, fatal vasculopathies characterized by extensive crystalline tissue deposits and monoclonal lambda light chain serum components.

The Pharmacokinetics of Zidovudine Administered 279  
 by Continuous Infusion in Children  
*F.M. Balis, P.A. Pizzo, R.F. Murphy, J. Eddy,  
 P.F. Jarosinski, J. Falloon, S. Broder, and  
 D.G. Poplack*

Continuous infusion was shown to be better than intermittent schedule in maintaining minimal virostatic concentrations with a lower daily dose.

Diagnosis of Sulfonamide Hypersensitivity 286  
 Reactions by In-Vitro "Rechallenge" with  
 Hydroxylamine Metabolites  
*M.J. Rieder, J. Uetrecht, N.H. Shear,  
 M. Cannon, M. Miller, and S.P. Spielberg*

Metabolic differences in the production and detoxification of reactive metabolites of sulfonamides are important in determining hypersensitivity reactions. The hydroxylamine derivative may be a reactive metabolite mediating these reactions.

**Diagnosis and Treatment**

Drugs Five Years Later: Praziquantel 290  
*C.H. King and A.A.F. Mahmoud*

The safety and efficacy of praziquantel have made it the treatment of choice for most human trematode and cestode infections. Cost factors have limited its use in developing countries.

**UCLA Conference**

Colony-Stimulating Factors and Host Defense 297  
*R.H. Weisbart, J.C. Gasson, and D.W. Golde*

Colony-stimulating factors may have a therapeutic role in augmenting host-defense mechanisms in patients with the acquired immunodeficiency syndrome.

**Review**

Diagnostic Tests for Patients with Suspected 304  
 Allergic Disease: Utility and Limitations  
*P.P. VanArsdel, Jr., and E.B. Larson*

Carefully interviewing the patient will help determine the most effective test for identifying allergenic substances. Clinicians should be aware of nonspecific test results and allergy tests with unproved effectiveness.

*Contents continued on next page*

<b>Symposium</b>			
Hemorrhagic Fever with Renal Syndrome: Four Decades of Research <i>T.M. Cosgriff</i>	313	Large-Volume Paracentesis in Outpatients <i>A.S. Patel and S.C. Gordon</i>	325
Hemorrhagic fever with renal syndrome has a wide geographic occurrence, and must be considered in the differential diagnosis of acute renal failure of unknown cause.		Exacerbation of Hypercalcemia after Needle Biopsy of a Parathyroid Cyst <i>A. Kobayashi, K. Kuma, F. Matsuzuka, and M. Sugawara</i>	326
<b>Position Paper</b>		Diltiazem and Thrombocytopenia <i>M. Lahav and R. Arav</i>	327
Allergy Testing <i>American College of Physicians</i>	317	Transposition of the Abdominal Viscera and "Nonvisualization of the Gallbladder" <i>J.E. Kreisle</i>	327
The utility and limitations of various tests used to identify allergenic substances are presented.		APACHE: A Nonproprietary Measure of Severity of Illness <i>W.A. Knaus and D.P. Wagner</i>	327
<b>Letters and Corrections</b>		Correction; Values for Oxygen Saturation <i>M.R. Sandberg</i>	328
Interleukin-2 and the Chronic Fatigue Syndrome <i>P.R. Cheney, S.E. Dorman, and D.S. Bell</i>	321	Correction: Increment for Concentration of 25-Hydroxycholecalciferol <i>D.S. Young</i>	328
The Histologic Diagnosis of Myocarditis <i>R.D. Latham and R. Virmani</i>	321	<b>Ad Libitum</b>	
Immunologic Thrombocytopenic Purpura and Human Immunodeficiency Virus (HIV) in a Married Heterosexual Couple <i>J.C. Larach and W.T. Leslie</i>	322	To the Heart of Lazar Riverius, Galenist Physician <i>J. Coulehan</i>	329
A Subclavian Bruit in the Thoracic Outlet Syndrome <i>P.J. Goadsby</i>	323	A Patient's Last Hour <i>P.W. Smith</i>	329
Rimantadine and Seizures <i>D.W. Bentley, S.D. Karki, and R.F. Betts</i>	323	<b>The Literature of Medicine</b>	
European Cases of Fibrolamellar Hepatocellular Carcinoma <i>A.B. Malondra, M.F. Picornell, J.T. Pons, J.J.T. Rovira, and J.B. Reines</i>	324	Reviews, Notes, and Listings	330
Hemorrhagic Fever with Renal Syndrome and Tamm-Horsfall Protein <i>P. Fievet, M. Boudjelal, R. Demontis, P. Veysier, P.Y. Lallement, N. Bove, and P. Ronco</i>	325	New Products and Services	Begins on I-2
		Abstracts of Articles	Begins on I-88
		Subscription Information	I-9
		Information for Readers and Authors	I-9
		Copyright Form	I-11
		Classified Services	See Advertising Pages
		CME Bulletin Board	I-67
		Index to Advertisers	I-106

<b>Editorials</b>			
Standard Formats for Electronic Transfer of Clinical Data <i>C.J. McDonald and W.E. Hammond</i>	333	Zidovudine for Thrombocytopenic Purpura Related to Human Immunodeficiency Virus (HIV) Infection <i>E. Oksenhendler, P. Bierling, F. Ferchal, J.-P. Clauvel, and M. Seligmann</i>	365
Standards for the transfer of clinical data are needed to enable automatic organization and analysis of patient data and to eliminate cost for software interface and chart abstraction.		Zidovudine effectively increases platelet counts in some patients, suggesting a role for HIV in the pathogenesis of thrombocytopenia.	
Interferon Therapy for Kaposi Sarcoma Associated with the Acquired Immunodeficiency Syndrome (AIDS) <i>J.E. Groopman and D.T. Scadden</i>	335	Coronary Artery Bypass Surgery in Patients on Chronic Hemodialysis: A Case-Control Study <i>E. Deutsch, R.C. Bernstein, V.P. Addonizio, and W.G. Kussmaul, III</i>	369
A subset of patients with Kaposi sarcoma can be expected to have a response rate of approximately 50% with interferon-alpha.		Bypass surgery is acceptable for patients on dialysis with advanced coronary artery disease. Earlier evaluation of the need for revascularization may improve clinical results.	
<b>Articles</b>		<b>NIH Conference</b>	
Lyme Carditis: An Important Cause of Reversible Heart Block <i>H.F. McAlister, P.T. Klementowicz, C. Andrews, J.D. Fisher, M. Feld, and S. Furman</i>	339	Development and Evaluation of a Vaccine for Human Immunodeficiency Virus (HIV) Infection <i>A.S. Fauci, R.C. Gallo, S. Koenig, J. Salk, and R.H. Purcell</i>	373
Carditis occurs in 4% to 10% of patients with Lyme disease; prompt recognition and treatment are crucial to avoid inappropriate implantation of permanent pacemakers.		Establishment of alternative primate and small animal models will facilitate the development of a vaccine for HIV.	
Can the Hypotriglyceridemic Effect of Fish Oil Concentrate Be Sustained? <i>G. Schechtman, S. Kaul, G.D. Cherayil, M. Lee, and A. Kisselbach</i>	346	<b>Review</b>	
High doses of fish oil concentrate with low-dose maintenance therapy do not sustain the initial large reductions in plasma triglyceride. The efficacy of the higher dose becomes less pronounced after the first month.		The Polycystic Ovary Syndrome: Pathogenesis and Treatment <i>R. Barnes and R.L. Rosenfield</i>	386
Methotrexate Induces Clinical and Histologic Remission in Patients with Refractory Inflammatory Bowel Disease <i>R.A. Kozarek, D.J. Patterson, M.D. Gelfand, V.A. Botoman, T.J. Ball, and K.R. Wilske</i>	353	Several causes produce the clinical syndrome by interaction among pathogenic mechanisms. Treatment objectives include amelioration of hirsutism, induction of ovulation, and weight reduction.	
Sixteen of twenty-one patients responded as judged objectively by disease activity indices, but further studies are needed before methotrexate can be recommended as treatment.		<b>Academia and Clinic</b>	
Effects of Bacterially Synthesized Recombinant Human Granulocyte-Macrophage Colony-Stimulating Factor in Patients with Advanced Malignancy <i>G.J. Lieschke, D. Maher, J. Cebon, M. O'Connor, M. Green, W. Sheridan, A. Boyd, M. Rallings, E. Bonnem, D. Metcalf, A.W. Burgess, K. McGrath, R.M. Fox, and G. Morstyn</i>	357	Childhood Cancer Survivors' Knowledge of Their Diagnosis and Treatment <i>J. Byrne, M.E.S. Lewis, L. Halamek, R.R. Connelly, and J.J. Mulvihill</i>	400
This agent induces leukocytosis in the dose range of 3 to 15 µg/kg · d, a dose appropriate for phase II studies.		Many long-term survivors of childhood cancer do not reveal their past history and treatment; possible clues to the cause of a current condition may be missed.	
<b>Brief Reports</b>		<b>Pyuria and Asymptomatic Bacteriuria in Elderly Ambulatory Women</b> <i>J.A. Boscia, E. Abrutyn, M.E. Levison, P.G. Pitsakis, and D. Kaye</i>	404
Pyuria is a poor predictor for bacteriuria and should not be used; absence of pyuria is very predictive of the absence of bacteriuria and can be used for this purpose.		<i>Contents continued on next page</i>	

Hypokalemic Periodic Paralysis due to the Sjögren Syndrome in Chinese Patients <i>K.-K. Pun, C.-K. Wong, E.Y.-L. Tsui, S.C.-F. Tam, A.W.-C. Kung, and C.C.-L. Wang</i>	405	Bladder Neuropathy in Periarteritis Nodosa <i>P. Amarenco, G. Amarenco, M. Baudrimont, E. Rouillet, and R. Marteau</i>	411
Hypokalemic paralysis secondary to renal tubular acidosis was controlled by potassium and alkaline treatments in three patients with the Sjögren syndrome.		Wide QRS-Complex Tachycardia <i>K.D. Wrenn</i>	412
<b>Letters and Corrections</b>		Doctor, Patient, and Family <i>K. Immerman</i>	412
The Chronic Fatigue Syndrome <i>A.L. Komaroff, S.E. Straus, N.M. Gantz, and J.F. Jones</i>	407	Ethical Decisions in Small Hospitals <i>P. Glusker</i>	413
Aerosolized Pentamidine <i>E. Bellin</i>	408	<b>The Literature of Medicine</b>	
Magnetic Resonance Scanning in the Sjögren Syndrome <i>D.M. Parenti, P. White, and J.A. Matsumoto</i>	408	Reviews, Notes, and Listings	414
Carboplatin and Renal Dysfunction <i>E. Reed and J. Jacob</i>	409	<b>Medical Notices</b>	Begins on I-16
Testicular Cancer, Clinical Stage I <i>J.P. Donohue</i>	409	<b>From Other Journals</b>	Begins on I-87
Excessive Drug Challenge <i>R.M. Donaldson, Jr.; K.A. Sanford, J.E. Mayle, H.A. Dean, and D.S. Greenbaum</i>	410	<b>Abstracts of Articles</b>	Begins on I-111
Lovastatin and Visual Changes <i>L.E. Mieczkowski and J.M. Holahan</i>	410	<b>Subscription Information</b>	I-9
		<b>Information for Readers and Authors</b>	I-9
		<b>Copyright Form</b>	I-11
		<b>Classified Services</b>	See Advertising Pages
		<b>Index to Advertisers</b>	I-140

<b>Editorials</b>			
Controlled Trial Methodology and Progress in Treatment of the Acquired Immunodeficiency Syndrome (AIDS): A Quid Pro Quo <i>S. Broder</i>	417	Interleukin-2 in Scleroderma: Correlation of Serum Level with Extent of Skin Involvement and Disease Duration <i>M.B. Kahaleh and E.C. LeRoy</i>	446
Inaccurate conclusions about drug efficacy and toxicity based on Phase I studies can impede progress in the development of new drugs.		The association between serum levels and disease progression indicates that T-cell activation may play a role.	
Style Notes: Taxonomic Names in Microbiology and Their Adjectival Derivatives <i>E.J. Huth</i>	419	Wheezing on Maximal Forced Exhalation in the Diagnosis of Atypical Asthma: Lack of Sensitivity and Specificity <i>D.K. King, B.T. Thompson, and D.C. Johnson</i>	451
Taxonomic genus names converted to a nontaxonomic noun or modified to an adjectival form can be used as adjectives.		Wheezing is neither a sensitive nor specific sign for airway hyperreactivity.	
<b>Articles</b>		<b>Diagnosis and Treatment</b>	
Balloon Valvuloplasty in Adult Aortic Stenosis: Determinants of Clinical Outcome <i>W. Sherman, R. Hershman, C. Lazzam, M. Cohen, J. Ambrose, and R. Gorlin</i>	421	The Role of Exercise Testing in Screening for Coronary Artery Disease <i>H.C. Sox, Jr., B. Littenberg, and A.M. Garber</i>	456
Only temporary systematic improvement was seen with balloon valvuloplasty, and the mortality rate in the mid-term follow-up period is high. Valve surgery remains the treatment of choice.		The routine use of exercise testing in healthy persons is not justified. Screening older men may prove to be worthwhile.	
Nebulized Albuterol for Acute Hyperkalemia in Patients on Hemodialysis <i>M. Allon, R. Dunlay, and C. Copkney</i>	426	<b>Review</b>	
Treatment with nebulized albuterol caused a decrease in plasma potassium concentrations without adverse cardiovascular effects in patients on hemodialysis.		Specialized Testing after Recent Acute Myocardial Infarction <i>R.F. DeBusk</i>	470
Osteoporosis in Hemochromatosis: Iron Excess, Gonadal Deficiency, or Other Factors? <i>T. Diamond, D. Stiel, and S. Posen</i>	430	Accurate assessment of patients allows aggressive medical and surgical treatment of patients at moderate to high risk, and accelerated recovery for patients at low risk.	
A significant decrease in bone density is seen in patients with idiopathic hemochromatosis, particularly those with hypogonadism.		<b>Perspective</b>	
Unilateral Renal Parenchymal Disease with Contralateral Renal Artery Stenosis of the Fibrodysplasia Type <i>P.E. de Jong, J.H. van Bockel, and D. de Zeeuw</i>	437	The Misinformation Era: The Fall of the Medical Record <i>J.F. Burnum</i>	482
Recognition of this condition should be considered in patients with hypertension and a unilateral small kidney to prevent unnecessary treatment with an angiotensin-converting enzyme inhibitor or nephrectomy.		Medical records may be distorted in an effort to keep clinically important but sensitive personal information from public view and to comply with standards of care imposed by reimbursement systems.	

*Contents continued on next page*

<b>Position Paper</b>			
Evaluation of Patients after Recent Acute Myocardial Infarction <i>American College of Physicians</i>	485	Percutaneous Alcohol Injection of Hepatocellular Carcinoma <i>A. Salmi</i>	494
Guidelines are presented for the stepwise application of frequently used laboratory tests; these tests quantify myocardial ischemia and left ventricular dysfunction and allow cost-effective evaluation of prognosis and functional capacity.			
<hr/>			
<b>Brief Reports</b>			
Transformation of Hepatic Cell Adenoma to Hepatocellular Carcinoma Due to Oral Contraceptive Use <i>E.J. Gyorffy, J.E. Bredfeldt, and W.C. Black</i>	489	Ischemic Hepatitis from Aortic Dissection <i>B.R. Leslie, L.H. Head, and J.C. Scharfenberg</i>	495
Hepatic cell adenoma was confirmed by biopsy in a woman who had used oral contraceptives for 19 years; 30 months after their discontinuation results of a repeat biopsy showed hepatocellular carcinoma.			
Acute Pancreatitis Due to 5-Aminosalicylate <i>B. Sachedina, F. Sabil, L.B. Cohen, and J. Whittey</i>	490	Intravenous Gamma Globulin, Antiphospholipid Antibodies, and Pregnancy <i>A. Parke, D. Maier, D. Wilson, J. Andreoli, and M. Ballow</i>	495
Sulfasalazine pancreatitis may be due to the 5-aminosalicylate moiety rather than sulfapyridine as previously thought.			
<hr/>			
<b>Letters and Corrections</b>			
Diagnosing Gallbladder Disease <i>G.T. Krishnamurthy; K.I. Marton</i>	493	Therapy for Syphilis <i>R. Matz; D.M. Musher</i>	496
Reviews, Notes, and Listings			
New Products and Services		Begins on I-2	
Abstracts of Articles		Begins on I-98	
Subscription Information		I-9	
Information for Readers and Authors		I-9	
Copyright Form		I-11	
Classified Services		See Advertising Pages	
CME Bulletin Board		I-83	
Index to Advertisers		I-129	

<b>Editorials</b>		
The Diagnosis of Lyme Disease: Rewards and Perils <i>A.G. Barbour</i>	501	Importance of Gonadal Steroids to Bone Mass in Men with Hyperprolactinemic Hypogonadism <i>S.L. Greenspan, D.S. Oppenheim, and A. Klibanski</i>
Serologic testing with enzyme-linked immunosorbent or indirect immunofluorescence assay offers the only choices for laboratory confirmation of Lyme disease, and these tests are not well standardized. Serologic assays should be ordered only to confirm a diagnosis based on epidemiologic and clinical evidence.		Improvement in bone mass is associated with reversal of hypogonadism, independent of prolactin concentration. Gonadal steroids are important in maintaining skeletal integrity.
Methylxanthines in 1989 <i>T.H. Rossing</i>	502	
Use of theophylline will likely decline as inhaled bronchodilators and anti-inflammatory drugs achieve greater acceptance.		
<b>Articles</b>		
Adverse Hemodynamic and Clinical Effects of Encainide in Severe Chronic Heart Failure <i>S.S. Gottlieb, M.L. Kukin, M. Yushak, N. Medina, and M. Packer</i>	505	The $\gamma$ -Aminobutyric Acid A (GABA <sub>A</sub> ) Receptor Complex and Hepatic Encephalopathy: Some Recent Advances <i>E.A. Jones, P. Skolnick, S.H. Gammie, A.S. Basile, and K.D. Mullen</i>
Adverse hemodynamic effects of encainide were accompanied by worsening symptoms of heart failure in 8 of 30 patients tested.		A benzodiazepine receptor antagonist can lessen the degree of hepatic encephalopathy. An endogenous substance with benzodiazepine-like properties may contribute to neuropsychiatric manifestations of hepatic encephalopathy by augmenting GABAergic neurotransmission.
Multipolar Electrocoagulation in the Treatment of Peptic Ulcers with Nonbleeding Visible Vessels: A Prospective, Controlled Trial <i>L. Laine</i>	510	
Endoscopic treatment with multipolar electrocoagulation benefits patients with major upper gastrointestinal hemorrhage found to have an ulcer with a nonbleeding visible vessel.		Care of the Patient after Coronary Angioplasty <i>J.J. Popma and G.J. Dehmer</i>
High-Level Penicillin Resistance among Isolates of Enterococci: Implications for Treatment of Enterococcal Infections. <i>L.M. Bush, J. Calmon, C.L. Cherney, M. Wendeler, P. Pitsakis, J. Poupard, M.E. Levison, and C.C. Johnson</i>	515	Management in the first 24 hours after angioplasty should focus on preventing, detecting, and treating acute vessel closure. After 6 months the emphasis should shift to evaluating recurrent symptoms and preventing restenosis.
Many strains of <i>Enterococcus faecium</i> are highly resistant to penicillin; periodic surveillance and MIC testing of significant enterococcal isolates are suggested.		
High Serum Levels of Lactic Dehydrogenase Identify a High-Grade Lymphoma-like Myeloma <i>B. Barlogie, L. Smallwood, T. Smith, and R. Alexanian</i>	521	<b>Academia and Clinic</b>
Staging of multiple myeloma should include measurements of serum lactic dehydrogenase levels in addition to beta-2-microglobulin analysis and tumor mass estimation.		The Two-Period Crossover Design in Medical Research <i>J.R. Woods, J.G. Williams, and M. Tavel</i>
		The findings of a crossover trial can be invalidated by nonuniform pharmacologic and psychologic carry-over effects, failure to return patients to their baseline state before the crossover, nonuniform changes in the patients over time, and the use of time-dependent response measures. These problems can be avoided with a parallel-group design.
		<b>Brief Reports</b>
		High Amylase Levels in Neoplasm-Related Pleural Effusion <i>M.R. Kramer, M.J. Saldana, R.J. Cepero, and A.E. Pitchenik</i>
		Early detection of amylase isoenzyme may help distinguish between a malignant effusion and a pancreatitis-induced pleural effusion.

*Contents continued on next page*

Fulminant Mumps Myocarditis <i>S. Chaudary and B.E. Jaski</i>	569	Human Immunodeficiency Virus (HIV) and Aplastic Anemia <i>J. M. Grau, X. Bosch, A.C. Salgado, and A. Urbano-Márquez</i>	576
Mumps myocarditis was diagnosed in vivo by endomyocardial biopsy in a patient with acute cardiogenic shock.		Mefloquine and an Acute Brain Syndrome <i>B. Rouveix, F. Bricaire, C. Michon, G. Franssen, J. Lebras, J. Bernard, F. Ajana, and J.L. Vienne</i>	577
<b>Letters and Corrections</b>			
Cocaine Abuse and Deep Venous Thrombosis <i>J.R. Lisse, C.P. Davis, and M. Thurmond-Anderle</i>	571	Correction: Parasympathetic Denervation of the Iris in Uremia <i>J.C. Idiaquez, R.O. García Ortiz, and R.K. Alonso</i>	578
Screening for Diabetes Mellitus <i>S. Clement, W. Duncan, L. Coffey, K. Dean, and N. Kinum; D.E. Singer, J.H. Samet, C.M. Coley, and D.M. Nathan</i>	572	Correction: Review of Book on Endocrine Disease <i>P.M. Copeland</i>	578
Asymptomatic Gallstones <i>G.H. Myers</i>	573	<b>The Literature of Medicine</b>	
Diagnosing the Sweet Syndrome <i>P.R. Cohen and R. Kurzrock</i>	573	Reviews, Notes, and Listings	579
Aerosolized Pentamidine <i>S.M. Picca; D. Armstrong and E. Bernard</i>	574	<b>Medical Notices</b> Begins on I-12	
Treatment of Neurosyphilis <i>R.T. Rolfs, J.M. Zenilman, H.W. Jaffe</i>	574	Abstracts of Articles	Begins on I-86
Ganciclovir and Immune Globulin in Cytomegalovirus Pneumonia <i>D.J. Morris</i>	575	Subscription Information	I-9
Cutaneous Sclerosis, Aplastic Anemia, and Antithymocyte Globulin <i>P. Fenaux, S. Mérignargues, D. Pagniez, A. Janin, D. Lucidarme, and F. Bauters</i>	575	Information for Readers and Authors	I-9
		Copyright Form	I-11
		Classified Services	See Advertising Pages
		Index to Advertisers	I-126

**Editorials**

Methotrexate in Rheumatoid Arthritis: Feedback on American College of Physicians Guidelines 581  
*P. Tugwell, K. Bennett, M. Bell, and M. Gent*

Despite substantial data on short-term benefit and toxicity, long-term follow-up studies are still needed on the use of methotrexate relative to other first- and second-line agents.

Non-A, Non-B Hepatitis: Sorting through a Diagnosis of Exclusion 583  
*M.J. Alter*

Two epidemiologically distinct types of hepatitis have been identified. A portion of the genome of a virus thought to be responsible for parenterally transmitted non-A, non-B hepatitis has been cloned and a candidate serologic assay developed.

Publications for Internists: The American College of Physicians and the British Medical Association 586  
*K. Case and E. Huth*

The College has issued four new books; it will distribute books produced by the British Medical Association.

**Articles**

Chronic Aortic Insufficiency: Factors Associated with Progression to Aortic Valve Replacement 587  
*D. Siemienzuk, B. Greenberg, C. Morris, B. Massie, R.A. Wilson, N. Topic, J.D. Bristow, and M. Cheitlin*

Measurement of left ventricular size and function can identify patients at higher and lower risk for early progression to aortic valve replacement.

The Effect of Caffeine on Exercise Tolerance and Left Ventricular Function in Patients with Coronary Artery Disease 593  
*A.T. Hirsch, E.V. Gervino, S. Nakao, P.C. Come, K.J. Silverman, and W. Grossman*

Patients with exercise-induced ischemia receiving antianginal therapy tolerate the caffeine equivalent of three cups of coffee without detrimental effect on intensity of ischemia, myocardial function, or exercise duration.

Mild Cystic Fibrosis in a Consanguineous Family 599  
*M.R. Knowles, T.B. Barnett, A. McConkie-Rosell, C. Sawyer, and S.G. Kahler*

The mild expression of cystic fibrosis in an extended consanguineous family provides evidence for an intrinsically less debilitating form of the disease.

Dapsone, Trimethoprim, and Sulfamethoxazole Plasma Levels during Treatment of Pneumocystis Pneumonia in Patients with the Acquired Immunodeficiency Syndrome (AIDS): Evidence of Drug Interactions 606  
*B.L. Lee, I. Medina, N.L. Benowitz, P. Jacob III, C.B. Wofsy, and J. Mills, V*

A bidirectional drug interaction between dapsone and trimethoprim results in a higher plasma concentration of each in the presence of the other.

Pharyngitis in Adults: The Presence and Coexistence of Viruses and Bacterial Organisms 612  
*P. Huovinen, R. Lahtonen, T. Ziegler, O. Meurman, K. Hakkarainen, A. Miettinen, P. Arstila, J. Eskola, and P. Saikku*

Simultaneous isolation of two microbes occurred in only 3 of 106 patients, and no microbial findings were detected in 33 patients, suggesting that diagnostic procedures need to be reconsidered.

Performance Characteristics of Serologic Tests for Human Immunodeficiency Virus Type 1 (HIV-1) Antibody among Minnesota Blood Donors: Public Health and Clinical Implications 617  
*K.L. MacDonald, J.B. Jackson, R.J. Bowman, H.F. Polesky, F.S. Rhame, H.H. Balfour Jr., and M.T. Osterholm*

In a 3-year prospective study of a low-risk population, the false-positive rate for HIV-1 antibody serology was extremely low, and test specificity extremely high.

*Contents continued on next page*

<b>Diagnosis and Treatment</b>		
Screening Asymptomatic Adults for Cardiac Risk Factors: The Serum Cholesterol Level <i>A.M. Garber, H.C. Sox Jr., and B. Littenberg</i>	622	
Screening and treatment should be individualized; for asymptomatic men at low risk, a 5-year period between tests is adequate. More frequent testing is appropriate for high-risk men. Screening is optional for women and the elderly.		
<hr/>		
<b>Academia and Clinic</b>		
Training Physicians in Counseling about Smoking Cessation: A Randomized Trial of the "Quit for Life" Program <i>S.R. Cummings, T.J. Coates, R.J. Richard, B. Hansen, E.G. Zahnd, R. VanderMartin, C. Duncan, B. Gerbert, A. Martin, and M.J. Stein</i>	640	
This program substantially changed the way physicians counseled smokers, resulting in a few more patients achieving long-term abstinence.		
Encouraging Primary Care Physicians To Help Smokers Quit: A Randomized, Controlled Trial <i>S.J. Cohen, G.K. Stoekey, B.P. Katz, C.A. Drook, and D.M. Smith</i>	648	
Labeling the charts of smokers and the availability of nicotine gum can help primary care physicians increase their success rate in helping patients quit smoking.		
<hr/>		
<b>Symposium</b>		
Occupational Infection with Human Immunodeficiency Virus (HIV): Risks and Risk Reduction <i>C.E. Becker, J.E. Cone, and J. Gerberding</i>	653	
The prevalence of HIV in health care environments will increase as the acquired immunodeficiency syndrome epidemic expands, and health care workers in many locations are likely to be at increased risk for exposure.		
<hr/>		
<b>Position Paper</b>		
Working Conditions and Supervision for Residents in Internal Medicine Programs: Recommendations <i>American College of Physicians</i>	657	
Changes intended to improve resident working hours must take into account the realities of teaching services; these issues should be examined on an ongoing basis.		
<hr/>		
<b>Letters and Corrections</b>		
Chronic Lymphocytic Leukemia: Recommendations <i>B.D. Cheson, J.M. Bennett, K.R. Rai, M.R. Grever, N.E. Kay, M.M. Oken, C.A. Schiffer, M.J. Keating, D.H. Boldt, S.J. Kempin, and K.A. Foon</i>	664	
Amyloidosis, Diarrhea, and a Somatostatin Analog <i>C.R. O'Connor and T.M. O'Dorisio</i>	665	
Oral Lichen Planus and Hepatic Cirrhosis <i>J.A. del Olmo, J.V. Bagan, J.M. Rodrigo, M.A. Serra, A.H. Wassel, L. Aparisi, and M. Bixquert</i>	666	
Tumor Necrosis Factor and Obesity <i>S. Chollet-Martin, J. Fricker, M. Apfelbaum, and M.A. Gougerot-Pocidalo</i>	666	
Megestrol Acetate and Cachexia Associated with Human Immunodeficiency Virus (HIV) Infection <i>P.A. Furth, J.H. Von Roenn, R.L. Murphy, K.M. Weber, L.M. Williams, and S.A. Weitzman</i>	667	
Thyrotoxicosis, Cryofibrinogenemia, Sinutab Maximum Strength, and Purple Ears <i>J. Kellett</i>	668	
Aerosolized Pentamidine and <i>Pneumocystis carinii</i> Pneumonia <i>A.B. Montgomery, D.W. Feigal, J.M. Luce, P.C. Hopewell, D.F. Hoth, M.W. Myers, J.E. Feinberg, J. Mills, and F.R. Sattler</i>	669	
Diagnostic Assessment of Dementia <i>D.K. Gittelman, A.M. Clarfield</i>	669	
Information for the Physician <i>P.F. Finelli, G.V. Ball, E. Rubenstein, and D.D. Federman</i>	670	
Correction: Beryllium Disease <i>M.D. Rossman</i>	672	
<hr/>		
<b>The Literature of Medicine</b>		
Reviews, Notes, and Listings	673	
<b>New Products and Services</b>	Begins on I-2	
Abstracts of Articles	Begins on I-95	
Subscription Information	I-9	
Information for Readers and Authors	I-9	
Copyright Form	I-11	
Classified Services	See Advertising Pages	
CME Bulletin Board	I-76	
Index to Advertisers	I-118	

<b>Editorials</b>			
Corticosteroids in Severe Alcoholic Hepatitis <i>M. Black and A.S. Tavill</i>	677	Systemic Gas Embolism Complicating Mechanical Ventilation in the Adult Respiratory Distress Syndrome <i>J.J. Marini and B.H. Culver</i>	699
The causal factors in the development of alcoholic hepatitis are complex, but corticosteroid therapy has a substantial beneficial effect on short-term survival of patients.		Recurrent episodes of cerebral infarction, myocardial injury, and livedo reticularis occurring in the setting of cystic barotrauma suggest systemic gas embolism.	
Earlier Diagnosis of Human Immunodeficiency Virus (HIV) Infection and More Counseling <i>D.P. Drotman</i>	680	Evaluation of a Serologic Marker, CA19-9, in the Diagnosis of Pancreatic Cancer <i>D.K. Pleskow, H.J. Berger, J. Gyves, E. Allen, A. McLean, and D.K. Podolsky</i>	704
Earlier diagnosis of HIV infection is an appropriate medical goal in view of the number of medical benefits. Physicians can best serve patients at risk by being informed, respectful, non-judgmental, and compassionate.		The serologic marker CA19-9 was more sensitive and specific for pancreatic cancer than other markers, and should be useful in patients with suspected pancreatic disease.	
Internal Medicine in the National Resident Matching Program, 1978-1989 <i>J.S. Graettinger</i>	682	Foscarnet Therapy for Severe Acyclovir-Resistant Herpes Simplex Virus Type-2 Infections in Patients with the Acquired Immunodeficiency Syndrome (AIDS): An Uncontrolled Trial <i>K.S. Erlich, M.A. Jacobson, J.E. Koehler, S.E. Follansbee, D.P. Drennan, L. Gooze, S. Safrin, and J. Mills</i>	710
A decreasing number of medical students are entering internal medicine. Changes in medical school clerkships and residency programs may be needed to reverse this trend.		Patients receiving foscarnet had marked clearing of mucocutaneous lesions and eradication of herpes simplex virus from mucosal surfaces.	
<b>Articles</b>			
Methylprednisolone Therapy in Patients with Severe Alcoholic Hepatitis: A Randomized Multicenter Trial <i>R.L. Carithers, Jr., H.F. Herlong, A.M. Diehl, E.W. Shaw, B. Combes, H.J. Fallon, and W.C. Maddrey</i>	685	Clinical Review	
Methylprednisolone decreased short-term mortality in patients with either spontaneous hepatic encephalopathy or a markedly elevated discriminant function value.		Pulmonary Edema Associated with Tocolytic Therapy <i>R.J. Pisani and E.C. Rosenow III</i>	714
A Common-Source Outbreak of Fulminant Hepatitis B in a Hospital <i>I. Oren, R.C. Hershow, E. Ben-Porath, N. Krivoy, N. Goldstein, S. Rishpon, D. Shouval, S.C. Hadler, M.J. Alter, J.E. Maynard, and G. Alroy</i>	691	Familiarity with clinical features should allow management of patients without further invasive or noninvasive testing otherwise used in evaluating dyspnea in pregnancy.	
A multiple-dose vial of heparin and normal-saline flush solution, possibly contaminated by the blood of a known carrier of hepatitis B surface antigen, was the probable common source. Five of six infected patients died.		Academia and Clinic	
		Predictive Validity of Certification by the American Board of Internal Medicine <i>P.G. Ramsey, J.D. Carline, T.S. Inui, E.B. Larson, J.P. LoGerfo, and M.D. Wenrich</i>	719
		Comparison of scores in a written examination and the professional associate ratings with certification status and the original ABIM certification examination scores shows predictive validity of the certification process.	

Contents continued on next page

<b>Perspective</b>		
Voluntary Screening for Human Immunodeficiency Virus (HIV) Infection: Weighing the Benefits and Harms <i>B. Lo, R.L. Steinbrook, M. Cooke, T.J. Coates, E.J. Walters, and S.B. Hulley</i>	727	Colonic Polyps in Asymptomatic Patients <i>J. Drexler, W.D. Carey and E. Achkar</i>
Health care workers can maximize the benefits and minimize the harms of testing by educating and counseling patients before testing, discussing the confidentiality of test results, urging patients to disclose positive test results to sex partners, and advising patients how to reduce high-risk behaviors.		
<b>Position Paper</b>		
Parenteral Nutrition in Patients Receiving Cancer Chemotherapy <i>American College of Physicians</i>	734	Neuropsychiatric Hirsutism <i>S.S. Braithwaite, M.A. Emanuele, and S. Collins</i>
Meta-analysis showed no indication for routine use of parenteral nutrition in patients undergoing chemotherapy. Further research needs to be done on the determinants of malnutrition in cancer patients and means of restoring nutritional status.		
<b>Brief Reports</b>		
<i>Pneumocystis carinii</i> Hepatitis in the Acquired Immunodeficiency Syndrome (AIDS) <i>R.B. Poblete, K. Rodriguez, R.T. Foust, K.R. Reddy, and M.J. Saldana</i>	737	Anticardiolipin Antibodies and <i>Pneumocystis carinii</i> Pneumonia <i>C. Masala, M. Sorice, M.A. Di Prima, L. Lenti, R. Misasi, C. Contini, and V. Vullo</i>
Extrapulmonary pneumocystosis can occur in patients receiving aerosolized pentamidine prophylaxis.		
The Pseudo-Sézary Syndrome with CD8 Phenotype in a Patient with the Acquired Immunodeficiency Syndrome (AIDS) <i>M. Janier, C. Katlama, B. Flageul, F. Valensi, I. Moulonguet, F. Sigaux, D. Dompmartin, and J. Civatte</i>	738	Right-Sided Staphylococcal Endocarditis <i>M. Monane, G.S. Gabelman, E. Cohen, and J.P. Karpel; H.F. Chambers</i>
Polyclonal CD8 lymphoid proliferation was found in the skin of a homosexual man seropositive for human immunodeficiency virus but negative for the human T-cell lymphoma virus.		
Therapy-Related Acute Nonlymphocytic Leukemia with Monocytic Features and Rearrangement of Chromosome 11q <i>R. DeVore, J. Whitlock, J.D. Hainsworth, and D.H. Johnson</i>	740	Lipomas and Potassium Intake <i>J.E. Wilson</i>
A 32-year-old man developed acute monocytic leukemia 33 months after receiving etoposide, cisplatin, and bleomycin, agents not commonly recognized as leukemogenic.		
<b>Letters and Corrections</b>		
Physical Examination of Asymptomatic Adults for Screening <i>M.R. Goldstein; S.J. Sugar; H.H. Billett; A.R. Tunkel; G.P. Wolf-Klein and F.A. Silverstone; J.M. Rubenstein; P.E. Ogden; K.L. Margolis and E.C. Rich</i>	743	Thiazide-Induced Hyponatremia and Vasopressin Release <i>M. Sonnenblick, N. Algur, and A. Rosin</i>
Norfloxacin and Warfarin <i>T. Linville and D. Matanin</i>		
Correction: Acknowledgment for Paper on Coronary Bypass Surgery <i>W.G. Kussmaul III</i>		
<b>Ad Libitum</b>		
The Once and Future Physician <i>R.B. Weinberg</i>		
<b>The Literature of Medicine</b>		
Reviews, Notes, and Listings	754	
<b>Medical Notices</b>	Begins on I-15	
Abstracts of Articles	I-19	
Subscription Information	I-9	
Information for Readers and Authors	I-9	
Copyright Form	I-11	
Classified Services	See Advertising Pages	
Index to Advertisers	I-116	

<b>Editorials</b>			
Medical Residencies: Quantity or Quality? <i>F. Davidoff</i>	757	High Prevalence of Antibodies to Intestinal Epithelial Antigens in Patients with Inflammatory Bowel Disease and Their Relatives <i>C. Fiocchi, J.K. Roche, and W.M. Michener</i>	786
<p>There are fewer U.S. senior medical students matching into categoric medicine programs; this change in preference challenges the discipline to improve residency quality.</p>			
Medical Therapy for Chronic Congestive Heart Failure <i>R. Jaeschke and G.H. Guyatt</i>	758	<p>Immune sensitization is common in families with chronic inflammatory bowel disease; its high frequency among asymptomatic relatives suggests a primary phenomenon predisposing to gut tissue injury.</p>	
<b>Articles</b>			
Percutaneous Aortic Balloon Valvuloplasty in Octogenarians: Morbidity and Mortality <i>S.T. Brady, C.A. Davis, W.G. Kussmaul, W.K. Laskey, J.W. Hirshfeld Jr., and H.C. Herrmann</i>	761	<p>Therapy specifically directed against hemodynamic abnormalities may delay and decrease negative effects on survival and quality of life.</p>	
<p>Hemodynamics and symptoms of heart failure are improved in patients 80 years and older during short-term follow-up, but mortality is high. Valvuloplasty is an alternative for patients with aortic stenosis who need palliative treatment and have a high surgical risk.</p>			
Asthma in Respiratory Therapists <i>D.G. Kern and H. Frumkin</i>	767	<b>Review</b>	
<p>There is an excess of asthma in respiratory therapists after entry into the profession not explained by confounding, information bias, or selection bias.</p>			
Combination Immunosuppressive Therapy after Factor VIII Infusion for Acquired Factor VIII Inhibitor <i>E.C.-Y. Lian, A.F. Larcada, and A.Y.-Z. Chiu</i>	774	The Multiple Organ Donor: Identification and Management <i>B.E. Soifer and A.W. Gelb</i>	814
<p>Treatment with factor VIII and cyclophosphamide, vincristine, and prednisone was effective in eradicating factor VIII inhibitor in nonhemophiliac patients, but not in hemophiliac patients.</p>			
Hepatitis D Virus Infection in Illinois State Facilities for the Developmentally Disabled: Epidemiology and Clinical Manifestations <i>R.C. Hershow, B.B. Chomel, D.R. Graham, P.M. Schyve, E.J. Mandel, M.A. Kane, H.A. Fields, and S.C. Hadler</i>	779	<p>Medical staff need to be aware of absolute and relative contraindications to organ donation and of potential problems in the management of donors.</p>	
<p>Widespread infection was found at 13 facilities; transmission was thought to have occurred mainly in the past at one overcrowded facility.</p>			
<b>Academia and Clinic</b>			
<p>A Computer-Assisted Medical Diagnostic Consultation Service: Implementation and Prospective Evaluation of a Prototype <i>R.A. Bankowitz, M.A. McNeil, S.M. Challinor, R.C. Parker, W.N. Kapoor, and R.A. Miller</i></p>			
<p>Computer-aided diagnostic consultation was both accurate and helpful when provided by physicians familiar with the limitations of the system and capable of overriding inappropriate suggestions.</p>			
<b>Perspective</b>			
<p>Recommendations for Control and Prevention of Human Immunodeficiency Virus (HIV) Infection in Intravenous Drug Users <i>P.W. Brickner, R.A. Torres, M. Barnes, R.G. Newman, D.C. Des Jarlais, D.P. Whalen, and D.E. Rogers</i></p>			
<p>Education is currently the only definitive means for controlling the spread of infection among intravenous drug users and their sex contacts, and to fetuses.</p>			

Contents continued on next page

<b>Brief Reports</b>																																															
Fulminant Hepatitis A in Intravenous Drug Users with Chronic Liver Disease <i>E.A. Akriavidis and A.G. Redeker</i>	838	Normal Ranges and "Errors": <i>I.J. Hollander</i>	847																																												
Hepatic failure developed in four intravenous drug users with pre-existing chronic parenchymal liver disease.		Frequency of Hemolytic Transfusion Reactions <i>P.H. Pinkerton; W.H. Knospe</i>	847																																												
Intravenous Amiodarone during Prolonged Resuscitation from Cardiac Arrest <i>M.L. Williams, A. Woelfel, W.E. Cascio, R.J. Simpson, Jr., L.S. Gettes, and J.R. Foster</i>	839	Methotrexate in Corticosteroid-Resistant Urticaria <i>M.J. Weiner</i>	848																																												
Intravenous amiodarone restored stable rhythm and enabled initial survival in 11 (79%) of 14 patients with ventricular tachycardia and ventricular fibrillation.		The Physician and the Family <i>L.B. Mauksch</i>	848																																												
<b>Letters and Corrections</b>		Correction: Letter on Oral Lichen Planus and Hepatic Cirrhosis <i>E.J. Huth</i>	849																																												
Cocaine, Pulmonary Hemorrhage, and Hemoptysis <i>J.E. Gedwin, R.A. Harley, K.S. Miller, and J.E. Heffner</i>	843	<b>Ad Libitum</b>																																													
Cocaine, Pulmonary Edema, and Propranolol <i>M. Walsh and J. Atwood</i>	843	Interaction of Fluconazole and Cyclosporine <i>A.M. Sugar, C. Saunders, B.A. Idelson, and D.B. Bernard</i>	844	Antibiotics 1999 <i>L.A. Lettau</i>	850	Indocyanine Green: Infusion Rate and Reactions <i>L.R. del Arbol, J.-C. García-Pagán, F. Feu, M. Navasa, and J. Bosch</i>	844	<b>The Literature of Medicine</b>		Methotrexate and Inflammatory Bowel Disease <i>S. Meyers</i>	845	Fulminant Hepatitis A in Intravenous Drug Users <i>K.J. Laskin and M. Black</i>	845	Reviews, Notes, and Listings	851	Colony-Stimulating Factors and Neutrophil Migration <i>G.C. Toner, A.A. Jakubowski, J.P.L. Crown, B. Meisenberg, C. Sheridan, and J.L. Gabrilove</i>	846	<b>New Products and Services</b>	Begins on I-2			Abstracts of Articles	Begins on I-36			Subscription Information	I-9			Information for Readers and Authors	I-9			Copyright Form	I-11			Classified Services	See Advertising Pages			CME Bulletin Board	I-75			Index to Advertisers	I-121
Interaction of Fluconazole and Cyclosporine <i>A.M. Sugar, C. Saunders, B.A. Idelson, and D.B. Bernard</i>	844	Antibiotics 1999 <i>L.A. Lettau</i>	850																																												
Indocyanine Green: Infusion Rate and Reactions <i>L.R. del Arbol, J.-C. García-Pagán, F. Feu, M. Navasa, and J. Bosch</i>	844	<b>The Literature of Medicine</b>																																													
Methotrexate and Inflammatory Bowel Disease <i>S. Meyers</i>	845	Fulminant Hepatitis A in Intravenous Drug Users <i>K.J. Laskin and M. Black</i>	845	Reviews, Notes, and Listings	851	Colony-Stimulating Factors and Neutrophil Migration <i>G.C. Toner, A.A. Jakubowski, J.P.L. Crown, B. Meisenberg, C. Sheridan, and J.L. Gabrilove</i>	846	<b>New Products and Services</b>	Begins on I-2			Abstracts of Articles	Begins on I-36			Subscription Information	I-9			Information for Readers and Authors	I-9			Copyright Form	I-11			Classified Services	See Advertising Pages			CME Bulletin Board	I-75			Index to Advertisers	I-121										
Fulminant Hepatitis A in Intravenous Drug Users <i>K.J. Laskin and M. Black</i>	845	Reviews, Notes, and Listings	851																																												
Colony-Stimulating Factors and Neutrophil Migration <i>G.C. Toner, A.A. Jakubowski, J.P.L. Crown, B. Meisenberg, C. Sheridan, and J.L. Gabrilove</i>	846	<b>New Products and Services</b>	Begins on I-2																																												
		Abstracts of Articles	Begins on I-36																																												
		Subscription Information	I-9																																												
		Information for Readers and Authors	I-9																																												
		Copyright Form	I-11																																												
		Classified Services	See Advertising Pages																																												
		CME Bulletin Board	I-75																																												
		Index to Advertisers	I-121																																												

<b>Editorials</b>			
Selective Intestinal Decontamination—An Infection Control Measure Whose Time Has Come? <i>R.A. Weinstein</i>	853	Development of Clinically Recognizable Genital Lesions among Women Previously Identified as Having "Asymptomatic" Herpes Simplex Virus Type 2 Infection <i>A. Langenberg, J. Benedetti, J. Jenkins, R. Ashley, C. Winter, and L. Corey</i>	882
Intestinal decontamination has been used to reduce the rate of endemic gram-negative bacillary infections in intensive care units. With its potential for the emergence of resistant strains and unresolved questions, this approach should still be considered experimental.		Approximately 50% of women with type 2 antibodies who do not report genital lesions have clinically symptomatic genital herpes. Identifying symptomatic recurrences and counseling to avoid sexual activity during these episodes may help reduce transmission.	
Hyperosmolar Coma: Cellular Dehydration and the Serum Sodium Concentration <i>J.T. Daugirdas, N.O. Kronfol, A.H. Tzamaloukas, and T.S. Ing</i>	855	Infection Caused by <i>Francisella philomiragia</i> (Formerly <i>Yersinia philomiragia</i> ): A Newly Recognized Human Pathogen <i>J.D. Wenger, D.G. Hollis, R.E. Weaver, C.N. Baker, G.R. Brown, D.J. Brenner, and C.V. Broome</i>	888
Cellular dehydration in patients with extreme hyperglycemia should be suspected if the "corrected" serum sodium level is a hypernatremic value.		This organism can cause serious disease in chronic granulomatous disease and near-drowning patients.	
<b>Articles</b>		<b>Diagnosis and Treatment</b>	
Combining Clinical and Thallium Data Optimizes Preoperative Assessment of Cardiac Risk before Major Vascular Surgery <i>K.A. Eagle, C.M. Coley, J.B. Newell, D.C. Brewster, R.C. Darling, H.W. Strauss, T.E. Guiney, and C.A. Boucher</i>	859	Diagnostic Reasoning <i>J.P. Kassirer</i>	893
Preoperative dipyridamole-thallium imaging appears most useful to stratify vascular patients at intermediate risk. Thallium redistribution correlates with substantial change in probability of events in patients with one or two clinical predictors.		As elements of the diagnostic process are identified, principles of effective clinical reasoning are formulated; three reasoning strategies, probabilistic, causal, and deterministic, are considered.	
Adiposity, Fat Distribution, and Cardiovascular Risk <i>A.N. Peiris, M.S. Sothmann, R.G. Hoffmann, M.I. Hennes, C.R. Wilson, A.B. Gustafson, and A.H. Kissebah</i>	867	<b>Review</b>	
Intra-abdominal fat deposition is a greater cardiovascular risk than obesity alone. Hyperinsulinemia may be an important component of the increased cardiovascular risk.		Hypertension in Elderly Patients <i>W.B. Applegate</i>	901
Intestinal Decontamination for Control of Nosocomial Multiresistant Gram-Negative Bacilli: Study of an Outbreak in an Intensive Care Unit <i>C. Brun-Buisson, P. Legrand, A. Rauss, C. Richard, F. Montravers, M. Besbes, J.L. Meakins, C.J. Soussy, and F. Lemaire</i>	873	Cardiovascular risk is reduced by treating mild to moderate diastolic hypertension in the elderly, but the reduction is not so great that treatment should be pursued if serious side effects cannot be avoided.	
This technique can help control intestinal colonization, but it cannot be recommended for routine prevention of endemic nosocomial infections.		<b>Academia and Clinic</b>	
The Box Plot: A Simple Visual Method to Interpret Data <i>D.F. Williamson, R.A. Parker, and J.S. Kendrick</i>	916	The box plot uses the median, the approximate quartiles, and the lowest and highest data points to convey the level, spread, and symmetry of a distribution of data values; it can be refined to identify outlier data values.	

Contents continued on next page

<b>Medicine and Public Issues</b>			
National Study of Internal Medicine Manpower: XV. A Decade of Change in Residency Training in Internal Medicine <i>R.M. Andersen, C. Lytle, C. Kohrman, G. Levey, and C. Glen</i>	922	Colony-Stimulating Factor and Drug-Induced Agranulocytosis <i>A. Delannoy and M. Géhenot</i>	942
Internal medicine is faring less well in the residency match compared with other specialties than it did 10 years ago; there has also been a greater increase in the number of residency positions than other major specialties.		Anaphylactic Shock and Vitamin K <sub>1</sub> <i>J. de la Rubia, E. Grau, I. Montserrat, I. Zuazu, and A. Payá</i>	943
<b>Position Paper</b>		Flutamide and Hepatitis <i>W. Hart and B.H. Ch. Stricker</i>	943
Health Care Needs of the Adolescent <i>American College of Physicians</i>	930	Lovastatin and Visual Changes <i>F.W. Newell</i>	944
Many adolescents appear to be medically underserved; barriers to managing adolescent health needs are insufficient training of physicians, limited financial reimbursement, and physician discomfort in dealing with them.		Isoniazid and Rhabdomyolysis <i>P.J. Cronkright and G. Szymaniak</i>	945
<b>Brief Reports</b>		Coagulase-Negative Staphylococcal Bacteremia <i>P. Collignon, M.A. Martin, M.A. Pfaller, and R.P. Wenzel</i>	945
Serum Hepatitis B Viral DNA in Acute Viral Hepatitis B <i>T.-L. Fong, E.A. Akriviadis, S. Govindarajan, B. Valinluck, and A.G. Redeker</i>	936	Seroreversions in Human Immunodeficiency Virus (HIV) Infection <i>L. Gürler, J. Eberle, and F. Deinhardt; H. Farzadegan, M. Polis, S. Wolinsky, C.R. Rinaldo, Jr., R. Kaslow, J. Phair, A.J. Saah, S. Kwok, and J.J. Sninsky</i>	946
Serum hepatitis B virus DNA is a useful marker in identifying patients who will progress to chronicity as early as 4 weeks after onset of acute hepatitis B.		Splenic Abscess from <i>Fusobacterium nucleatum</i> <i>S.W. Haber and C.A. Perlino</i>	948
Clinical Effect of Glucocorticoids on Kaposi Sarcoma Related to the Acquired Immunodeficiency Syndrome (AIDS) <i>P.S. Gill, C. Loureiro, M. Bernstein-Singer, M.U. Rarick, F. Sattler, and A.M. Levine</i>	937	Correction: <i>Handbook of Clinical Drug Data</i> <i>J.E. Knoben and P.O. Anderson</i>	948
Patients had marked acceleration of lesions after receiving glucocorticoids; the relation between glucocorticoids and Kaposi sarcoma needs further study, and steroids should be used with caution in these patients.		Correction: Letter about the Periodic Physical Examination <i>P.E. Ogden</i>	949
<b>Letters and Corrections</b>		Correction: Title of Book Review <i>E.J. Huth</i>	949
The Periodic Physical Examination in Asymptomatic Persons <i>R.M. Cass; R. Coney</i>	941	<b>The Literature of Medicine</b>	
The Geriatric Consultation Team <i>M.R. Wasserman</i>	942	Reviews, Notes, and Listings	950
		Medical Notices	Begins on I-12
		Abstracts of Articles	Begins on I-30
		Subscription Information	I-9
		Information for Readers and Authors	I-9
		Copyright Form	I-11
		Classified Services	See Advertising Pages
		Index to Advertisers	I-114

**Editorials**

New Challenges for Thrombolytic Therapy 953  
*D.A. Tate and G.J. Dehmer*

Thrombolytic agents can restore coronary artery patency, salvage myocardial function, and improve mortality after acute myocardial infarction; however, as suggested by Lee and colleagues, only a small fraction of patients with myocardial infarction qualify for treatment with thrombolytic agents by the criteria used today.

Immunization Strategies for the 955  
 Immunocompromised Host: The Need for  
 Immunoadjuvants  
*P.L. Hibberd and R.H. Rubin*

The safety, efficacy, and optimal dosage schedules of vaccines and immunomodulators should be evaluated in the various immunocompromised patient populations, including the elderly and the very young, whose responses to existing vaccines are often not optimal.

**Articles**

Candidates for Thrombolysis among Emergency 957  
 Room Patients with Acute Chest Pain: Potential  
 True- and False-Positive Rates  
*T.H. Lee, M.C. Weisberg, D.A. Brand,  
 G.W. Rouan, and L. Goldman*

The clinical value of thrombolytic therapy for acute myocardial infarction was assessed using true-positive and false-positive rates of criteria for eligibility among patients with acute chest pain. For every eight patients with true-positive results who are treated, one to two patients with false-positive results may also be treated if decisions are made using a single electrocardiogram.

Predictive Markers for the Acquired 963  
 Immunodeficiency Syndrome (AIDS) in  
 Hemophiliacs: Persistence of p24 Antigen and Low  
 T4 Cell Count  
*M.E. Eyster, J.O. Ballard, M.H. Gail,  
 J.E. Drummond, and J.J. Goedert*

The predictive value of assays for human immunodeficiency virus (HIV) p24 antigen, p24 antibody, and gp120 antibody compared with T4 cell counts was investigated. Low T4 counts or p24 antigenemia were both strongly predictive of AIDS.

Unique Alterations of Thyroid Hormone Indices in 970  
 the Acquired Immunodeficiency Syndrome (AIDS)  
*J.S. LoPresti, J.C. Fried, C.A. Spencer, and  
 J.T. Nicoloff*

Infection with human immunodeficiency virus (HIV) produces unique alterations in thyroid function. A progressive decline in rT3 and elevation in thyroxine-binding globulin accompany advancing HIV infection; a low serum T3 on admission correlates with mortality.

Treatment of Myelodysplastic Syndromes with 976  
 Recombinant Human Granulocyte Colony-  
 Stimulating Factor: A Phase I-II Trial  
*R.S. Negrin, D.H. Haeuber, A. Nagler, L.C. Olds,  
 T. Donlon, L.M. Souza, and P.L. Greenberg*

Treatment for 6 to 8 weeks is well tolerated and effective in improving the neutropenia, and less commonly the transfusion-dependent anemia, in patients with myelodysplastic syndromes.

Chronic Diarrhea Associated with Drinking 985  
 Untreated Water  
*J. Parsonnet, S.C. Trock, C.A. Bopp, C.J. Wood,  
 D.G. Addiss, F. Alai, L. Gorelikin, N. Hargrett-  
 Bean, R.A. Gunn, and R.V. Tauxe*

This first outbreak of chronic diarrhea was linked to drinking untreated water. The causative agent and pathophysiological mechanism of the illness remain elusive.

**UCLA Conference**

Selective Vulnerability of the Brain: New Insights 992  
 into the Pathophysiology of Stroke  
*R.C. Collins, B.H. Dobkin, and D.W. Choi*

Specific pharmacologic agents may prove useful for treating stroke in humans, including inhibitors of both the glutamate receptor and the ion-channel complex.

**Review**

Transplanted Infections: Donor-to-Host 1001  
 Transmission with the Allograft  
*K.M. Gottesdiener*

True donor-transmitted infection, though rare, can be reduced by careful donor screening, which should include clinical and epidemiologic assessment for evidence of infection, as well as judicious laboratory testing.

**Perspective**

Coronary Morbidity and Mortality, Pre-existing 1017  
 Silent Coronary Artery Disease, and Mild  
 Hypertension  
*B.F. O'Kelly, B.M. Massie, J.F. Tubau, and  
 J. Szlachcic*

Effective antihypertensive therapy has not consistently reduced the incidence of cardiac events in the major trials for treatment of mild hypertension. These trials were limited because of their size, entry criteria, and duration.

*Contents continued on next page*

<b>Brief Reports</b>			
Ciprofloxacin for Salmonella Bacteremia in the Acquired Immunodeficiency Syndrome (AIDS) <i>M.A. Jacobson, S.M. Hahn, J.L. Gerberding, B. Lee, and M.A. Sande</i>	1027	Theophylline Blood Levels in Circulatory Shock <i>P.S. Randhawa</i>	1035
Treatment with ciprofloxacin may be superior to standard antibiotic therapy for chemosuppression of AIDS-associated recurrent salmonella bacteremia.			
Intravenous Phenytoin: A Loading Scheme for Desired Concentrations <i>K.U. Blaser, S. Vozeh, H. Landolt, G. Kaufmann, J. Romppainen, and O. Gratzl</i>	1029	Aerosolized Pentamidine and Cutaneous Eruptions <i>T.G. Berger, J.W. Tappero, G.S. Leoung, and M.A. Jacobson</i>	1035
A new dosing regimen for phenytoin was derived using Monte Carlo computer simulations. Systolic blood pressure decreased by more than 20% in 4 of 21 patients, and no patient needed treatment to correct hypotension.		Ureterolithiasis and Creatine Kinase <i>R.G. Kachel</i>	1036
Surreptitious Ipecac Administration Simulating Intestinal Pseudo-Obstruction <i>W.C. Santangelo, J.E. Richey, L. Rivera, and J.S. Fordtran</i>	1031	Poison Ivy, Mangoes, Cashews, and Dermatitis <i>M. Geller</i>	1036
An 18-year-old mentally retarded man had nausea, vomiting, diarrhea, and difficulty in urinating; these gastrointestinal symptoms were from chronic ipecac ingestion.		Poor Medical Records <i>E.S. Marks</i>	1037
<b>Correction: Frequency Finding in Letter</b> <i>E.J. Huth</i>			
<b>The Literature of Medicine</b>			
Letters and Corrections		Reviews, Notes, and Listings	1038
Asymptomatic Gallstones in Diabetic Patients <i>A.K. Diehl</i>	1033	New Products and Services	Begins on I-2
Asymptomatic Gallstones in Diabetic Patients <i>L. Friedman, M.S. Roberts, A.S. Brett, and K.I. Marton</i>	1033	Abstracts of Articles	Begins on I-27
Carboplatin and Renal Function <i>E.F. Smit, D.Th. Sleijfer, S. Meijer, N.H. Mulder, and P.E. Postmus</i>	1034	Subscription Information	I-3
Megestrol Acetate and Hyperpnea <i>W.J. Fessel</i>	1034	Information for Readers and Authors	I-9
		Copyright Form	I-11
		Classified Services	See Advertising Pages
		CME Bulletin Board	I-65
		Index to Advertisers	I-95

